
Device for Mounting a Pedal Lever

Patent Claims

5 1. A device (1) for mounting a said pedal lever (2) of a motor vehicle with
- a said pedal lever (2) mounted in a pivotingly movable manner about a said pivot axis (5) that is
arranged at a said bearing block (4) and is designed as a said bearing bolt (6),
- a said abutment (8) located at a spaced location from the said bearing block (4), and
- a said tear-off member (9), which is designed as a said two-armed lever (10) and is arranged
10 between the said bearing block (4) and the said abutment (8),

characterized in that

the said tear-off member (9), which brings about the shearing off of the said bearing bolt (6) of the
said pedal lever (2) as a consequence of the action of an external force caused by a crash due to a
relative motion between the said tear-off member (9) and the said bearing block (4) while a
15 shearing force is applied, is supported at the said bearing block (4) at a spaced location from the
said pivot axis (5) of the said pedal lever (2) of the said bearing block (4).

2. A device in accordance with claim 1, characterized in that the support of the said tear-off
member (9) is designed as a pivotingly movable support.

3. A device in accordance with claim 1, characterized in that the said pedal lever (2) is designed as a pedal.

4. A device in accordance with one of the above claims, characterized in that the said tear-off member (9) is in contact with a said arc-shaped contour (16) of the said bearing block (4) in a pivotingly movable manner.

5. A device in accordance with claim 4, characterized in that the said contour (16) on the said bearing block (4) has an arc-shaped design with a convex arch.

6. A device in accordance with claim 4 or 5, characterized in that the said tear-off member (9) has a said concave arch (14) that is complementary to the said contour (16) of the said bearing block (4).

7. A device in accordance with one of the above claims, characterized in that the said tear-off member (9) is designed as a profiled part with two said lateral legs (12).

8. A device in accordance with claim 7, characterized in that the said tear-off member (9) is designed as a deep-drawn part.

9. A device in accordance with claim 7 or 8, characterized in that the said lateral legs (12) of the profiled part are in contact with the said pedal lever (2) in a positive-locking manner in the immediate vicinity of the said pivot axis (5) of the said pedal lever (2).

10. A device in accordance with one of the claims 7 through 9, characterized in that the said tear-off member (9) designed as a profiled part is in contact with the said abutment (8) in a positive-locking manner.

5 11. A device in accordance with claim 10, characterized in that the said tear-off member (9) is in contact with the said abutment (8) such that the said abutment (8) dips into a said recess (13) between the said lateral legs (12) of the said tear-off member (9) and is surrounded by the said legs (12) in a positive-locking manner.

12. A device in accordance with one of the above claims, characterized in that the said abutment (8) is arranged on a said stationary vehicle crossrail (7).

10 13. A device in accordance with one of the above claims, characterized in that the said bearing bolt (6) has at least one said predetermined breaking point (22).

14. A device in accordance with one of the above claims, characterized in that the said tear-off member (9) has a securing means for mounting on the said bearing block (4).

15 15. A device in accordance with one of the above claims, characterized in that the said device (1) for mounting the said pedal lever (2) of a motor vehicle is designed as a preassembled module with the said tear-off member (9).